

*The on-screen version of the Collider-Accelerator Department Procedure is the Official Version. Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A*

PASS ANNUAL ACCEPTANCE TEST PROTOCOL

Division A Software Filename and Checksum: Title: \_\_\_\_\_ Checksum: \_\_\_\_\_

Division B Software Filename and Checksum: Title: \_\_\_\_\_ Checksum: \_\_\_\_\_

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**Initial testing complete:**

Test Team Leader's Name (Print): \_\_\_\_\_ Life Number: \_\_\_\_\_

Test Team Leader's Name (Sign): \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

**Acceptance test procedure complete (following repairs and retesting if required):**

Test Team Leader's Name (Print): \_\_\_\_\_ Life Number: \_\_\_\_\_

Test Team Leader's Name (Sign): \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

**Test results reviewed by:**

Safety Section Head's Name (Print): \_\_\_\_\_ Life Number: \_\_\_\_\_

Safety Section Head's Name (Sign): \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

**Test results accepted by Radiation Safety Committee:**

RSC Member's Name (Print): \_\_\_\_\_ Life Number: \_\_\_\_\_

RSC Member's Name (Sign): \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

**1.1 CONDUCT** Visual check on **LINAC** doors following Table-1, below

Gate	Micro Switch		Verify Elec Wiring OK	Verify Gate Box OK	Verify Open/Close Fctns OK	Verify all x's Corr.	Inspn OK Init.
	Verify Align OK	Verify Opern OK					
<b>AGS/HEBT</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>HEBT</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>BLIP</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>PLUG</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Plug Door Swing (PDS)</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Tank9</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Tank1</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**Legend:** Tick = O.K. x = Problem N/A = Not Applicable

**Table 1: Summary of Physical Inspection of LINAC Gates**

☐ Check for acceptance of Visual check on LINAC gates

**NOTE:**

If the AGS/HEBT and Linac/HEBT gate test were tested as part of OPM 4.120.22.b or 4.120.62.b, then sections 1.2 and 1.3 are not required.

Tested in 4.120.22.b ☐ or 4.120.62.b ☐ Date \_\_\_\_\_  
 Name \_\_\_\_\_ Signed \_\_\_\_\_

**1.2 Test of AGS/HEBT (A/H) gate**

- |                          |               |   |                   |
|--------------------------|---------------|---|-------------------|
| <input type="checkbox"/> | <b>VERIFY</b> | Hardware <input type="checkbox"/> , Electrical <input type="checkbox"/> at <b>A/H</b> gate is           | <b>O.K.</b>       |
|                          | <b>PLACE</b>  | Linac in Restricted Access ( <b>RA</b> ) at encl <b>4880</b> with <b>BNL-3</b> key and <b>green</b> P/B |                   |
| <input type="checkbox"/> | <b>VERIFY</b> | Linac is in   | <b>RA</b>         |
| <input type="checkbox"/> | <b>VERIFY</b> | Attempt to open <b>A/H</b> gate with <b>AA256</b> key from <b>AGS</b> side                              | <b>SUCCESSFUL</b> |
|                          | <b>OPEN</b>   | Crash Glass <b>switch</b>   |                   |
|                          | <b>CLOSE</b>  | <b>A/H</b> gate <input type="checkbox"/>  |                   |
| <input type="checkbox"/> | <b>VERIFY</b> | Attempt to open <b>A/H</b> gate without a key from <b>AGS</b> side                                      | <b>SUCCESSFUL</b> |
| <input type="checkbox"/> | <b>VERIFY</b> | At encl <b>4880</b> relay <b>EK10</b> is  | <b>OFF</b>        |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>A/H</b> <b>Crash</b> light at encl <b>4880</b> is  | <b>ON</b>         |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>Crash</b> light at <b>A/H</b> gate is  | <b>OFF</b>        |
|                          | <b>CLOSE</b>  | Crash Glass <b>switch</b> and <b>leave closed</b>   |                   |
| <input type="checkbox"/> | <b>VERIFY</b> | At encl 4880 relay <b>EK10</b> is   | <b>ON</b>         |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>A/H</b> <b>Crash</b> light at encl <b>4880</b> is  | <b>OFF</b>        |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>Crash</b> light at <b>A/H</b> gate is  | <b>ON</b>         |
|                          | <b>HOLD</b>   | <b>Gate</b> MS and Electric Strike ( <b>ES</b> )  | <b>CLOSED</b>     |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>Gate</b> lamp <input type="checkbox"/> and <b>ES</b> lamp <input type="checkbox"/> are               | <b>ON</b>         |
|                          | <b>OPEN</b>   | <b>Gate</b> MS  |                   |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>Gate</b> lamp <input type="checkbox"/> and <b>ES</b> lamp <input type="checkbox"/> are               | <b>OFF</b>        |
|                          | <b>CLOSE</b>  | <b>Gate</b> MS and <b>hold</b>  | <b>CLOSED</b>     |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>Gate</b> lamp <input type="checkbox"/> and <b>ES</b> lamp <input type="checkbox"/> are               | <b>ON</b>         |
|                          | <b>OPEN</b>   | <b>ES</b>   |                   |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>Gate</b> lamp is   | <b>ON</b>         |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>ES</b> lamp is   | <b>OFF</b>        |
|                          | <b>OPEN</b>   | <b>A/H</b> gate   |                   |
|                          | <b>CLOSE</b>  | Gate <b>redundant</b> ( <b>GR</b> ) microswitch (MS)  |                   |
| <input type="checkbox"/> | <b>VERIFY</b> | At encl 4880 relay <b>EK11</b> is   | <b>ON</b>         |
| <input type="checkbox"/> | <b>VERIFY</b> | At encl 4880 <b>A/H</b> <b>N/Closed</b> light is  | <b>OFF</b>        |
|                          | <b>OPEN</b>   | <b>GR</b> MS  |                   |
| <input type="checkbox"/> | <b>VERIFY</b> | At encl 4880 relay <b>EK11</b> is   | <b>OFF</b>        |
| <input type="checkbox"/> | <b>VERIFY</b> | At encl 4880 <b>A/H</b> <b>N/Closed</b> light is  | <b>ON</b>         |
|                          | <b>CLOSE</b>  | <b>A/H</b> gate   |                   |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>A/H</b> gate is  | <b>CLOSED</b>     |
| <input type="checkbox"/> | <b>VERIFY</b> | Attempt to reset <b>A/H</b> gate with <b>BNL-3</b> key from <b>Linac</b> side                           | <b>FAIL</b>       |
| <input type="checkbox"/> | <b>VERIFY</b> | At <b>A/H</b> gate-box <b>N/Reset</b> light is  | <b>ON</b>         |
| <input type="checkbox"/> | <b>VERIFY</b> | At <b>A/H</b> gate-box <b>Reset</b> light is  | <b>OFF</b>        |
| <input type="checkbox"/> | <b>VERIFY</b> | At encl 4880 relay <b>EK9</b> is  | <b>OFF</b>        |
| <input type="checkbox"/> | <b>VERIFY</b> | At encl 4880 <b>N/Reset</b> light is  | <b>ON</b>         |

	<b>PLACE</b>	Linac in Controlled Access (CA) at encl <b>4880</b> with <b>BNL-3</b> key and <b>P/B</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>A/H</b> gate-box RA light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	Linac is in	<b>CA</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>A/H</b> gate-box <b>N/Reset</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>A/H</b> gate-box <b>Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>EK9</b> is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Reset</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>N322</b> gate-box <b>N/Reset</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>N322</b> gate-box <b>Reset</b> light is	<b>OFF</b>
	<b>RESET</b>	<b>A/H</b> Gate with <b>BNL-3</b> key from the <b>Linac</b> side	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Timer On</b> light	<b>ON</b>
		Time <b>Timer On</b> light	
<input type="checkbox"/>	<b>VERIFY</b>	<b>TimerOn</b> light goes out after	<b>~1 min</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>A/H</b> gate-box <b>N/Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>A/H</b> gate-box <b>Reset</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>EK9</b> is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	That on the AGS side of the <b>A/H</b> gate the reset for TTB do not enter sign	<b>ILLUMINATED BY 2 BULBS</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open gate with <b>MCR S/R</b> and <b>AA256</b> key from <b>AGS</b> side	<b>FAIL</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>A/H</b> gate-box <b>N/Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>A/H</b> gate-box <b>Reset</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>EK9</b> is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open gate with <b>MCR S/R</b> and <b>H715</b> key from <b>AGS</b> side	<b>SUCCESSFUL</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>A/H</b> gate-box <b>N/Reset</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>A/H</b> gate-box <b>Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>EK9</b> is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Reset</b> light is	<b>ON</b>
	<b>CLOSE</b>	<b>A/H</b> gate	
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to reset <b>A/H</b> gate with <b>H715</b> key from <b>AGS</b> side	<b>FAIL</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>A/H</b> gate-box <b>N/Reset</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>A/H</b> gate-box <b>Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>EK9</b> is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Reset</b> light is	<b>ON</b>
	<b>PLACE</b>	Linac in Restricted Access (RA) at encl <b>4880</b> with <b>BNL-3</b> key and <b>green P/B</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Linac is in	<b>RA</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>A/H</b> gate-box RA light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to reset <b>A/H</b> gate with <b>BNL-3</b> key from <b>Linac</b> side	<b>FAIL</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>A/H</b> gate-box <b>N/Reset</b> light is	<b>ON</b>

<input type="checkbox"/>	<b>VERIFY</b>	At <b>A/H</b> gate-box <b>Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>EK9</b> is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Reset</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4521 relay <b>FK9</b>	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to reset A/H gate with <b>H705</b> key from <b>AGS</b> side	<b>SUCCESSFUL</b>
<input type="checkbox"/>	<b>VERIFY</b>	That on the AGS side of the <b>A/H</b> gate the reset for TTB do not enter sign	<b>ILLUMINATED BY 2 BULBS</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4521 relay <b>FK9</b>	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>A/H</b> gate-box <b>N/Reset</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>A/H</b> gate-box <b>Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>EK9</b> is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Reset</b> light is	<b>ON</b>
		Open and close <b>A/H</b> gate with <b>AA256</b> key from <b>AGS</b> side	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4521 relay <b>FK9</b>	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	That on the AGS side of the <b>A/H</b> gate the reset for TTB do not enter sign	<b>OFF</b>
<input type="checkbox"/>	<b>PLACE</b>	AGS in Controlled Access ( <b>CA</b> ) at encl <b>4880</b> with <b>H693</b> key and <b>P/B</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>A/H</b> gate-box RA light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to reset <b>N322</b> gate with <b>H715</b> key from <b>AGS</b> side	<b>SUCCESSFUL</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>N322</b> gate-box <b>N/Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>N322</b> gate-box <b>Reset</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to reset <b>A/H</b> gate with <b>BNL-3</b> key from <b>Linac</b> side	<b>FAIL</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>A/H</b> gate-box <b>N/Reset</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>A/H</b> gate-box <b>Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>EK9</b> is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Reset</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	Allow a minimum delay of 2 min after reset of <b>N322</b> gate Attempt to reset <b>A/H</b> gate with <b>H715</b> key from <b>AGS</b> side	<b>FAIL</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>A/H</b> gate-box <b>N/Reset</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>A/H</b> gate-box <b>Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>EK9</b> is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Reset</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	Open and close <b>N322</b> gate Attempt to reset <b>N322</b> gate with <b>H715</b> key from <b>AGS</b> side	<b>SUCCESSFUL</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>N322</b> gate-box <b>N/Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>N322</b> gate-box <b>Reset</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	Within 1 min of resetting <b>N322</b> gate attempt to reset <b>A/H</b> gate with <b>H715</b> key from <b>AGS</b> side	<b>SUCCESSFUL</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>A/H</b> gate-box <b>N/Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>A/H</b> gate-box <b>Reset</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>EK9</b> is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Reset</b> light is	<b>OFF</b>

### 1.3 Test of Linac HEBT (HEBT) gate

<input type="checkbox"/>	<b>VERIFY PLACE</b>	Hardware <input type="checkbox"/> , Electrical <input type="checkbox"/> at <b>HEBT</b> gate is Linac in Restricted Access ( <b>RA</b> ) at encl <b>4880</b> with <b>BNL-3</b> key and <b>green</b> P/B	<b>O.K.</b>
<input type="checkbox"/>	<b>VERIFY</b>	Linac is in	<b>RA</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>HP</b> switch is in <b>local P/B</b>	<b>DISABLE</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open <b>HEBT</b> gate with <b>local P/B</b>	<b>FAIL</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>HP</b> switch is in <b>local P/B</b>	<b>ENABLE</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open <b>HEBT</b> gate with <b>local P/B</b>	<b>SUCCESSFUL</b>
	<b>OPEN</b>	Crash Glass <b>switch</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Crash</b> light at <b>HEBT</b> gate	<b>OFF</b>
	<b>CLOSE</b>	Crash Glass <b>switch</b> and <b>leave closed</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Crash</b> light at <b>HEBT</b> gate is	<b>ON</b>
	<b>HOLD</b>	Gate MS and Electric Strike ( <b>ES</b> )	<b>CLOSED</b>
<input type="checkbox"/>	<b>VERIFY</b>	Gate lamp <input type="checkbox"/> and <b>ES</b> lamp <input type="checkbox"/> are	<b>ON</b>
	<b>OPEN</b>	Gate MS	
<input type="checkbox"/>	<b>VERIFY</b>	Gate lamp <input type="checkbox"/> and <b>ES</b> lamp <input type="checkbox"/> are	<b>OFF</b>
	<b>CLOSE</b>	Gate MS and <b>hold</b>	<b>CLOSED</b>
<input type="checkbox"/>	<b>VERIFY</b>	Gate lamp <input type="checkbox"/> and <b>ES</b> lamp <input type="checkbox"/> are	<b>ON</b>
	<b>OPEN</b>	<b>ES</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Gate lamp is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>ES</b> lamp is	<b>OFF</b>
	<b>OPEN</b>	<b>HEBT</b> gate	
	<b>CLOSE</b>	Gate <b>redundant (GR)</b> microswitch (MS)	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>IK12</b> is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>HEBT N/Closed</b> light is	<b>OFF</b>
	<b>OPEN</b>	<b>GR</b> MS	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>IK12</b> is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>HEBT N/Closed</b> light is	<b>ON</b>
	<b>CLOSE</b>	<b>HEBT</b> gate	
<input type="checkbox"/>	<b>VERIFY</b>	<b>HEBT</b> gate is	<b>CLOSED</b>
<input type="checkbox"/>	<b>VERIFY</b>	Latch OK light on gate box is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>Reset for TTB</b> light on gate box is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>Reset for TTB</b> light on gate is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4521 relay <b>FK8</b>	<b>OFF</b>
	<b>RESET</b>	<b>HEBT</b> gate for TTB with <b>H705</b> key	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Reset for TTB</b> light on gate box is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>Reset for TTB</b> light on gate is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4521 relay <b>FK8</b>	<b>OFF</b>
	<b>OPEN</b>	<b>HEBT</b> gate	
	<b>PLACE</b>	Linac in Controlled Access ( <b>CA</b> ) at encl <b>4880</b> with <b>BNL-3</b> key and <b>P/B</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Linac is in	<b>CA</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>HEBT</b> gate-box <b>Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relays <b>FK1</b> <input type="checkbox"/> and <b>IK8</b> <input type="checkbox"/> are	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Locked</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>HEBT</b> gate-box <b>Area Reset</b> light is	<b>OFF</b>

<input type="checkbox"/>	<b>VERIFY</b>	<b>Attempt to reset HEBT Gate with ME-17 key</b>	<b>FAIL</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>special reset box</b> at <b>N322</b> gate ready light is	<b>ON</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>special reset box</b> at <b>N322</b> gate push <b>Reset P/B</b>	<b>ON</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>special reset box</b> at <b>N322</b> gate reset light is	<b>ON</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>HEBT</b> gate-box <b>Area Reset</b> light is	<b>ON</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Attempt to reset HEBT Gate with ME-17 key</b>	<b>SUCCESSFUL</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>HEBT</b> gate-box <b>Gate Reset</b> light is	<b>ON</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>FK1</b> <input type="checkbox"/> and <b>IK8</b> <input type="checkbox"/> are	<b>ON</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Locked</b> light is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Reset for TTB</b> light on gate box is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Reset for TTB</b> light on gate is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4521 relay <b>FK8</b>	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Attempt to open gate with local P/B</b>	<b>SUCCESSFUL</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>HEBT</b> gate-box <b>Gate Reset</b> light is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>FK1</b> <input type="checkbox"/> and <b>IK8</b> <input type="checkbox"/> are	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Locked</b> light is	<b>ON</b>	
	<b>CLOSE</b>	<b>HEBT</b> gate		
<input type="checkbox"/>	<b>Check for acceptance of Test of Linac HEBT gate</b>			

#### 1.4 Test of BLIP gate

<input type="checkbox"/>	<b>VERIFY</b>	Hardware <input type="checkbox"/> , Electrical <input type="checkbox"/> at <b>BLIP</b> gate is	<b>O.K.</b>	
	<b>PLACE</b>	Linac in Restricted Access (RA) at encl <b>4880</b> with <b>BNL-3</b> key and <b>green P/B</b>		
<input type="checkbox"/>	<b>VERIFY</b>	Linac is in	<b>RA</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>HP</b> switch is in <b>local P/B</b>	<b>DISABLE</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Attempt to open BLIP gate with local P/B</b>	<b>FAIL</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>HP</b> switch is in <b>local P/B</b>	<b>ENABLE</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Attempt to open BLIP gate with local P/B</b>	<b>SUCCESSFUL</b>	
	<b>OPEN</b>	<b>Crash Glass switch</b>		
<input type="checkbox"/>	<b>VERIFY</b>	At encl <b>4880</b> relay <b>IK13</b> is	<b>OFF</b>	
	<b>CLOSE</b>	<b>Crash Glass switch</b> and <b>leave closed</b>		
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>IK13</b> is	<b>ON</b>	
	<b>HOLD</b>	<b>Gate MS</b> and <b>Electric Strike (ES)</b>	<b>CLOSED</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Gate</b> lamp <input type="checkbox"/> and <b>ES</b> lamp <input type="checkbox"/> are	<b>ON</b>	
	<b>OPEN</b>	<b>Gate MS</b>		
<input type="checkbox"/>	<b>VERIFY</b>	<b>Gate</b> lamp <input type="checkbox"/> and <b>ES</b> lamp <input type="checkbox"/> are	<b>OFF</b>	
	<b>CLOSE</b>	<b>Gate MS</b> and <b>hold</b>	<b>CLOSED</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Gate</b> lamp <input type="checkbox"/> and <b>ES</b> lamp <input type="checkbox"/> are	<b>ON</b>	
	<b>OPEN</b>	<b>ES</b>		
<input type="checkbox"/>	<b>VERIFY</b>	<b>Gate</b> lamp is	<b>ON</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>ES</b> lamp is	<b>OFF</b>	
	<b>OPEN</b>	<b>Gate redundant (GR)</b> microswitch		
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>IK13</b> is	<b>OFF</b>	



<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>BLIP</b> Door Redun. N/Closed light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>GR</b> light at <b>BLIP</b> gate is	<b>OFF</b>
	<b>CLOSE</b>	<b>GR</b> MS	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>IK13</b> is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>BLIP</b> Door Redun. N/Closed light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>GR</b> light at <b>BLIP</b> gate is	<b>ON</b>
	<b>CLOSE</b>	<b>BLIP</b> gate	
<input type="checkbox"/>	<b>VERIFY</b>	<b>BLIP</b> gate is	<b>CLOSED</b>
	<b>PLACE</b>	Linac in Controlled Access ( <b>CA</b> ) at encl <b>4880</b> with <b>BNL-3</b> key and <b>P/B</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Linac is in	<b>CA</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>BLIP</b> gate-box <b>Gate Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relays <b>IK9</b> <input type="checkbox"/> and <b>EK4</b> <input type="checkbox"/> are	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Locked</b> light is	<b>ON</b>
	<b>RESET</b>	<b>BLIP</b> Gate with <b>ME-17</b> key	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>BLIP</b> gate-box <b>Gate Reset</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relays <b>IK9</b> <input type="checkbox"/> and <b>EK4</b> <input type="checkbox"/> are	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Locked</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open gate with <b>MCR S/R</b> and <b>local P/B</b>	<b>SUCCESSFUL</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>BLIP</b> gate-box <b>Gate Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relays <b>IK9</b> <input type="checkbox"/> and <b>EK4</b> <input type="checkbox"/> are	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Locked</b> light is	<b>ON</b>
	<b>CLOSE</b>	<b>BLIP</b> gate	
<input type="checkbox"/>	<b>Check for acceptance of Test of BLIP gate</b>		

### 1.5 Test of Plug Door (PD)Gate

<input type="checkbox"/>	<b>VERIFY</b>	Hardware <input type="checkbox"/> , Electrical <input type="checkbox"/> at <b>PD</b> gate is	<b>O.K.</b>
	<b>PLACE</b>	Linac in Restricted Access ( <b>RA</b> ) at encl <b>4880</b> with <b>BNL-3</b> key and <b>green P/B</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Linac is in	<b>RA</b>
	<b>CLOSE</b>	At encl 4880 relay <b>DK2</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Beam Disabled</b> lights at <b>PD</b> gate inside and outside are	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>Beam Operational</b> lights at <b>PD</b> gate inside and outside are	<b>OFF</b>
	<b>OPEN</b>	At encl 4880 relay <b>DK2</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Beam Disabled</b> lights at <b>PD</b> gate inside and outside are	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>Beam Operational</b> lights at <b>PD</b> gate inside and outside are	<b>ON</b>
		At the <b>PD</b> gate <b>Outside Control Station(OCS)</b> encl M14A23A3 Push the <b>Black Open PB</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl M14A23A5 the <b>Clear to Open</b> Light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl M14A23A3 the <b>Bolt</b> Light is	<b>OFF</b>
	<b>PUSH</b>	The <b>Stop PB</b> in the <b>Outside Plug Door Control Box (OPDCB)</b> encl M14A23A5	
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open <b>PD</b> gate with <b>BNL-3</b> key in the <b>OPDCB</b>	<b>FAIL</b>
	<b>RELEASE</b>	The <b>Stop PB</b>	

<input type="checkbox"/>	<b>CLOSE</b> <b>VERIFY</b> <b>OPEN</b>	The <b>Right Bumper</b> switch Attempt to open <b>PD</b> gate with <b>BNL-3</b> key in the <b>OPDCB</b> The <b>Right Bumper</b> switch	<b>FAIL</b>
<input type="checkbox"/>	<b>CLOSE</b> <b>VERIFY</b> <b>OPEN</b>	The <b>Left Bumper</b> switch Attempt to open <b>PD</b> gate with <b>BNL-3</b> key in the <b>OPDCB</b> The <b>Left Bumper</b> switch	<b>FAIL</b>
<input type="checkbox"/>	<b>CLOSE</b> <b>VERIFY</b> <b>OPEN</b>	The <b>One Open Limit</b> switch Attempt to open <b>PD</b> gate with <b>BNL-3</b> key in the <b>OPDCB</b> The <b>One Open Limit</b> switch	<b>FAIL</b>
<input type="checkbox"/>	<b>CLOSE</b> <b>VERIFY</b> <b>OPEN</b>	The <b>Other Open Limit</b> switch Attempt to open <b>PD</b> gate with <b>BNL-3</b> key in the <b>OPDCB</b> The <b>Other Open Limit</b> switch	<b>FAIL</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open the <b>PD</b> gate with the <b>BNL-3</b> key in the <b>OPDCB</b>	<b>SUCCESSFUL</b>
<input type="checkbox"/>	<b>VERIFY</b>	At the <b>PD</b> gate <b>OCS</b> lock the <b>PD</b> gate with the <b>BNL-3</b> key	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl M14A23A5 the <b>Clear to Open</b> Light is	<b>ON</b>
<input type="checkbox"/>	<b>CLOSE</b> <b>VERIFY</b> <b>OPEN</b>	The <b>One Close Limit</b> switch Attempt to close <b>PD</b> gate with <b>Close</b> in the <b>OPDCB</b> The <b>One Close Limit</b> switch	<b>FAIL</b>
<input type="checkbox"/>	<b>CLOSE</b> <b>VERIFY</b> <b>OPEN</b>	The <b>Other Close Limit</b> switch Attempt to close <b>PD</b> gate with <b>Close PB</b> in the <b>OPDCB</b> The <b>Other Close Limit</b> switch	<b>FAIL</b>
<input type="checkbox"/>	<b>REMOVE</b> <b>VERIFY</b>	<b>Outside</b> Crash Glass box <b>glass</b> At encl 4880 relay <b>EK1</b> is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>PD</b> Gate Crash light at encl 4880 is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>Crash</b> light at <b>PD</b> gate	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to close <b>PD</b> gate with <b>Close PB</b> in the <b>OPDCB</b>	<b>FAIL</b>
<input type="checkbox"/>	<b>REPLACE</b> <b>VERIFY</b>	<b>Outside</b> Crash Glass <b>glass</b> At encl 4880 relay <b>EK1</b> is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>PD</b> Gate Crash light at encl 4880 is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>Crash</b> light at <b>PD</b> gate is	<b>ON</b>
<input type="checkbox"/>	<b>REMOVE</b> <b>VERIFY</b>	<b>Inside</b> Crash Glass box <b>glass</b> At encl 4880 relay <b>EK1</b> is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>PD</b> Gate Crash light at encl 4880 is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>Crash</b> light at <b>PD</b> gate	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to close <b>PD</b> gate with <b>Close PB</b> in the <b>OPDCB</b>	<b>FAIL</b>
<input type="checkbox"/>	<b>REPLACE</b> <b>VERIFY</b>	<b>Inside</b> Crash Glass <b>glass</b> At encl 4880 relay <b>EK1</b> is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>PD</b> Gate Crash light at encl 4880 is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>Crash</b> light at <b>PD</b> gate is	<b>ON</b>
<input type="checkbox"/>	<b>CLOSE</b> <b>VERIFY</b>	<b>Both PD Gate MS</b> At <b>PD</b> gate <b>Door Switch</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>RELEASE</b> <b>VERIFY</b>	<b>Left PD gate MS</b> At <b>PD</b> gate <b>Door Switch</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>CLOSE</b> <b>VERIFY</b>	<b>Both PD Gate MS</b> At <b>PD</b> gate <b>Door Switch</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>RELEASE</b>	<b>Right PD gate MS</b>	

<input type="checkbox"/>	<b>VERIFY</b>	At <b>PD</b> gate <b>Door Switch</b> light is	<b>OFF</b>	
	<b>OPEN</b>	Gate <b>redundant (GR)</b> MS near Swing gate		
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>EK2</b> is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>PD</b> Door Redun. N/Closed light is	<b>ON</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>GR</b> light at <b>PD</b> gate is	<b>OFF</b>	
	<b>CLOSE</b>	<b>GR</b> MS		
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>EK2</b> is	<b>ON</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>PD</b> Door Redun. N/Closed light is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>GR</b> light at <b>PD</b> gate is	<b>ON</b>	
	<b>CLOSE</b>	<b>PD</b> gate		
<input type="checkbox"/>	<b>VERIFY</b>	<b>Alarm</b> sounds while <b>PD</b> is	<b>CLOSING</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>PD</b> is	<b>CLOSED</b>	
	<b>PLACE</b>	Linac in Controlled Access ( <b>CA</b> ) at encl <b>4880</b> with <b>BNL-3</b> key and <b>P/B</b>		
<input type="checkbox"/>	<b>VERIFY</b>	Linac is in	<b>CA</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>PD</b> OCS N/Reset light is	<b>ON</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>PD</b> OCS Reset light is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK12</b> is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 N/Reset light is	<b>ON</b>	
	<b>RESET</b>	<b>PD</b> Gate at <b>PD</b> OCS with <b>BNL-3</b> key		
<input type="checkbox"/>	<b>VERIFY</b>	At <b>PD</b> OCS N/Reset light is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>PD</b> OCS Reset light is	<b>ON</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK12</b> is	<b>ON</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 N/Reset light is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open gate at <b>PD</b> OCS with <b>MCR S/R</b> and the <b>BNL-3</b> key to <b>start the process</b>	<b>SUCCESSFUL</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Alarm</b> sounds while <b>PD</b> is	<b>OPENING</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>PD</b> OCS Reset light is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK12</b> is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 N/Reset light is	<b>ON</b>	
	<b>TRIP</b>	<b>PD Bumper</b>		
<input type="checkbox"/>	<b>VERIFY</b>	<b>PD</b> stops	<b>OPENING</b>	
	<b>RESUME</b>	<b>PD</b> opening		
<input type="checkbox"/>	<b>VERIFY</b>	<b>PD</b> continues to	<b>OPEN</b>	
		At the <b>PD</b> gate <b>Inside Control Station(ICS)</b> encl M14A23A2 turn the <b>BNL-3</b> key <b>CCW</b>		
<input type="checkbox"/>	<b>VERIFY</b>	At encl M14A23A4 the <b>Clear to Open</b> Light is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl M14A23A2 the <b>Bolt</b> Light is	<b>ON</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to close gate with <b>Close PB</b> in the <b>Inside Plug Door Control Box (IPDCB)</b> encl M14A23A4	<b>SUCCESSFUL</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>PD</b> ICS N/Reset light is	<b>ON</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>PD</b> ICS Reset light is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK12</b> is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 N/Reset light is	<b>ON</b>	
	<b>RESET</b>	<b>PD</b> Gate at <b>PD</b> ICS with <b>BNL-3</b> key		

<input type="checkbox"/>	<b>VERIFY</b>	At <b>PD ICS N/Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>PD ICS Reset</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK12</b> is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At the <b>PD</b> gate <b>ICS</b> turn the <b>BNL-3</b> key <b>CW</b> At encl M14A23A4 the <b>Clear to Open</b> Light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl M14A23A2 the <b>Bolt</b> Light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At the <b>PD</b> gate <b>ICS</b> turn the <b>BNL-3</b> key <b>CCW</b> At encl M14A23A4 the <b>Clear to Open</b> Light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl M14A23A2 the <b>Bolt</b> Light is	<b>ON</b>
	<b>PLACE</b>	Linac in Restricted Access ( <b>RA</b> ) at encl <b>4880</b> with <b>BNL-3</b> key and <b>green</b> P/B	
<input type="checkbox"/>	<b>VERIFY</b>	Linac is in	<b>RA</b>
<input type="checkbox"/>	<b>VERIFY</b>	At the <b>PD</b> gate <b>ICS</b> Push the <b>Black Open PB</b> At encl M14A23A4 the <b>Clear to Open</b> Light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl M14A23A2 the <b>Bolt</b> Light is	<b>OFF</b>
	<b>PUSH</b>	The <b>Stop PB</b> in the <b>IPDCB</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open <b>PD</b> gate with the <b>Open PB</b> in the <b>IPDCB</b>	<b>FAIL</b>
	<b>RELEASE</b>	The <b>Stop PB</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open <b>PD</b> gate with the <b>Open PB</b> in the <b>IPDCB</b>	<b>SUCCESSFUL</b>
	<b>LEAVE</b>	<b>PD open</b>	
<input type="checkbox"/>	<b>Check for acceptance of Test of Plug Door gate</b>		

#### 1.6 Test of Plug Door Swing (PDS) gate

<input type="checkbox"/>	<b>VERIFY</b>	Hardware <input type="checkbox"/> , Electrical <input type="checkbox"/> at <b>PDS</b> gate is	<b>O.K.</b>
	<b>PLACE</b>	Linac in Restricted Access ( <b>RA</b> ) at encl <b>4880</b> with <b>BNL-3</b> key and <b>green</b> P/B	
<input type="checkbox"/>	<b>VERIFY</b>	Linac is in	<b>RA</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open <b>PDS</b> gate with <b>AA256</b> key	<b>SUCCESSFUL</b>
	<b>OPEN</b>	Crash Glass <b>switch</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>EK3</b> is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Locked</b> light is	<b>ON</b>
	<b>CLOSE</b>	Crash Glass <b>switch</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>EK3</b> is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Locked</b> light is	<b>OFF</b>
	<b>OPEN</b>	<b>PDS gate</b> switch	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>EK3</b> is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Locked</b> light is	<b>ON</b>
	<b>CLOSE</b>	<b>PDS gate</b> switch	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>EK3</b> is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Locked</b> light is	<b>OFF</b>

	<b>OPEN</b>	<b>PDS gate</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>EK3</b> is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Locked</b> light is	<b>ON</b>
	<b>CLOSE</b>	<b>PDS gate</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>EK3</b> is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Locked</b> light is	<b>OFF</b>
	<b>PLACE</b>	Linac in Controlled Access ( <b>CA</b> ) at encl <b>4880</b> with <b>BNL-3</b> key and <b>P/B</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Linac is in	<b>CA</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open <b>PDS</b> gate with <b>AA256</b> key with <b>NO</b> MCR S/R	<b>SUCCESSFUL</b>
<input type="checkbox"/>	<b>Check for acceptance of Test of Plug Door Swing (PDS) gate</b>		

### 1.7 Test of Tank 1 (TK1) gate

<input type="checkbox"/>	<b>VERIFY</b>	Hardware <input type="checkbox"/> , Electrical <input type="checkbox"/> at <b>TK1</b> gate is	<b>O.K.</b>
	<b>PLACE</b>	Linac in Restricted Access ( <b>RA</b> ) at encl <b>4880</b> with <b>BNL-3</b> key and <b>green P/B</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Rest Access</b> lights at <b>TK1</b> gate inside and outside are	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	Linac is in	<b>RA</b>
	<b>CLOSE</b>	At encl 4880 relay <b>DK2</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Beam Disabled</b> lights at <b>TK1</b> gate inside and outside are	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>Beam Operational</b> lights at <b>TK1</b> gate inside and outside are	<b>OFF</b>
	<b>OPEN</b>	At encl 4880 relay <b>DK2</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Beam Disabled</b> lights at <b>TK1</b> gate inside and outside are	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>Beam Operational</b> lights at <b>TK1</b> gate inside and outside are	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open <b>TK1</b> gate with <b>AA256</b> key and <b>P/B</b> for <b>Slide-bolt</b>	<b>SUCCESSFUL</b>
	<b>OPEN</b>	Crash Glass <b>switch</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl <b>4880</b> relay <b>DK4</b> is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>TK1</b> Prime Crash light at encl <b>4880</b> is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>Crash</b> lights at <b>TK1</b> gate inside and outside are	<b>OFF</b>
	<b>CLOSE</b>	Crash Glass <b>switch</b> and <b>leave closed</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK4</b> is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>TK1</b> Prime Crash light at encl <b>4880</b> is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>Crash</b> lights at <b>TK1</b> gate inside and outside are	<b>ON</b>
	<b>CLOSE</b>	Tank 9 gate	
	<b>NOTE</b>	<b>COMPLETE TEST OF GATE AND ELECTRIC STRIKE SWITCHS IN UNDER 2 MINIUTES OR HOLD GATE REDUNDANT MS CLOSED</b>	
	<b>PLACE</b>	Linac in <b>Tank RF Controlled Access</b> at encl <b>4880</b> with <b>ME-16</b> key	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK1</b> is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relays <b>FK3</b> <input type="checkbox"/> and <b>CK2</b> <input type="checkbox"/> are	<b>ON</b>
	<b>HOLD</b>	<b>Gate MS</b> , Electric Strike ( <b>ES</b> ) and <b>Barrier (BS)</b>	<b>CLOSED</b>
<input type="checkbox"/>	<b>VERIFY</b>	inside and outside are	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to <b>Reset TK1</b> Gate with <b>ME-16</b> key for <b>RF</b>	<b>SUCCESSFUL</b>
	<b>OPEN</b>	<b>Gate MS</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Door Switch</b> lights inside and outside are	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to <b>Reset TK1</b> Gate with <b>ME-16</b> key for <b>RF</b>	<b>FAIL</b>

	<b>CLOSE</b>	<b>Gate MS and hold</b>	<b>CLOSED</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>Gate</b> lamps inside and outside are	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to <b>Reset TK1</b> Gate with <b>ME-16</b> key for <b>RF</b>	<b>SUCCESSFUL</b>
	<b>OPEN</b>	<b>BS</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Door Switch</b> lights inside and outside are	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to <b>Reset TK1</b> Gate with <b>ME-16</b> key for <b>RF</b>	<b>FAIL</b>
	<b>CLOSE</b>	<b>BS and hold</b>	<b>CLOSED</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>Gate</b> lamps inside and outside are	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to <b>Reset TK1</b> Gate with <b>ME-16</b> key for <b>RF</b>	<b>SUCCESSFUL</b>
	<b>OPEN</b>	<b>ES</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to <b>Reset TK1</b> Gate with <b>ME-16</b> key for <b>RF</b>	<b>FAIL</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>Gate</b> lamps inside and outside are	<b>ON</b>
	<b>OPEN</b>	<b>Gate redundant (GR) MS</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK5</b> is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>TK1</b> Door Redun. N/Closed light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>GR</b> lights at <b>TK1</b> gate inside and outside are	<b>OFF</b>
	<b>CLOSE</b>	<b>GR MS</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK5</b> is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>TK1</b> Door Redun. N/Closed light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>GR</b> lights at <b>TK1</b> gate inside and outside are	<b>ON</b>
	<b>CLOSE</b>	<b>TK1</b> gate	
<input type="checkbox"/>	<b>VERIFY</b>	<b>TK1</b> gate is	<b>CLOSED</b>
	<b>PLACE</b>	Linac in Controlled Access ( <b>CA</b> ) at encl <b>4880</b> with <b>BNL-3</b> key and <b>P/B</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Linac is in	<b>CA</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>Rest Access</b> lights at <b>TK1</b> gate inside and outside are	<b>OFF</b>
	<b>RESET</b>	Tank 9 gate for beam	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> outside gate-box <b>Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relays <b>DK3</b> <input type="checkbox"/> and <b>IK10</b> <input type="checkbox"/> are	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <input type="checkbox"/> <b>N/Reset</b> lights and at outside gate-box <input type="checkbox"/> <b>N/Reset</b> are	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> outside gate-box <b>RF Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> outside gate-box <b>Bolt Switch</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> outside gate-box <b>No Prev Entry</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK6</b> is	<b>OFF</b>
	<b>RESET</b>	<b>TK1</b> Gate with <b>BNL-3</b> key in the outside gate-box	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> outside gate-box <b>Reset</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relays <b>DK3</b> <input type="checkbox"/> and <b>IK10</b> <input type="checkbox"/> are	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <input type="checkbox"/> <b>N/Reset</b> light and at outside gate-box <input type="checkbox"/> <b>N/Reset</b> are	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> outside gate-box <b>RF Reset</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> outside gate-box <b>Bolt Switch</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> outside gate-box <b>No Prev Entry</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK6</b> is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>DK2</b> , Linac Safely OFF, is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open gate with <b>MCR S/R</b> , <b>BNL-3</b> key for <b>Slide-bolt</b> and <b>ME-17</b> key for <b>Electric Strike</b> in that order	<b>SUCCESSFUL</b>
	<b>CLOSE</b>	<b>TK1</b> gate	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> outside gate-box <b>Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK3</b> <input type="checkbox"/> and <b>IK10</b> <input type="checkbox"/> are	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <input type="checkbox"/> <b>N/Reset</b> light and at outside gate-box <input type="checkbox"/> <b>N/Reset</b> is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> outside gate-box <b>RF Reset</b> light is	<b>OFF</b>

<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> outside gate-box <b>Bolt Switch</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> outside gate-box <b>No Prev Entry</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK6</b> is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> inside gate-box <b>Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relays <b>DK3</b> <input type="checkbox"/> and <b>IK10</b> <input type="checkbox"/> are	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <input type="checkbox"/> <b>N/Reset</b> lights and at inside gate-box <input type="checkbox"/> <b>N/Reset</b> are	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> inside gate-box <b>RF Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> inside gate-box <b>Bolt Switch</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> inside gate-box <b>No Prev Entry</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK6</b> is	<b>OFF</b>
	<b>RESET</b>	<b>TK1</b> Gate with <b>BNL-3</b> key in the outside gate-box	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> inside gate-box <b>Reset</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relays <b>DK3</b> <input type="checkbox"/> and <b>IK10</b> <input type="checkbox"/> are	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <input type="checkbox"/> <b>N/Reset</b> light and at inside gate-box <input type="checkbox"/> <b>N/Reset</b> are	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> inside gate-box <b>RF Reset</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> inside gate-box <b>Bolt Switch</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> inside gate-box <b>No Prev Entry</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK6</b> is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>DK2</b> , Linac Safely OFF, is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open gate with <b>MCR S/R</b> , <b>BNL-3</b> key for <b>Slide-bolt</b> and <b>ME-17</b> key for <b>Electric Strike</b> in that order	<b>SUCCESSFUL</b>
	<b>CLOSE</b>	<b>TK1</b> gate	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> inside gate-box <b>Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK3</b> <input type="checkbox"/> and <b>IK10</b> <input type="checkbox"/> are	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <input type="checkbox"/> <b>N/Reset</b> light and at inside gate-box <input type="checkbox"/> <b>N/Reset</b> is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> inside gate-box <b>RF Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> inside gate-box <b>Bolt Switch</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> inside gate-box <b>No Prev Entry</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK6</b> is	<b>OFF</b>
	<b>PLACE</b>	Linac in <b>RA</b> at encl <b>4880</b> with <b>BNL-3</b> key and <b>P/B</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Linac is in	<b>RA</b>
	<b>PLACE</b>	Linac in <b>RF</b> Controlled Access ( <b>RFCA</b> ) at encl <b>4880</b> with <b>ME-16</b> key turned <b>right</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Linac is in	<b>RFCA</b>
	<b>RESET</b>	<b>TK1</b> Gate with <b>ME-16</b> key for <b>RF</b> in outside gate box	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> outside gate-box <b>RF Reset</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK6</b> is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open gate with <b>ME-17</b> key	<b>FAIL</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open gate with <b>ME-16</b> key	<b>SUCCESSFUL</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> outside gate-box <b>RF Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK6</b> is	<b>OFF</b>
	<b>RESET</b>	<b>TK1</b> Gate with <b>ME-16</b> key for <b>RF</b> in inside gate box	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> inside gate-box <b>RF Reset</b> light is	<b>ON</b>

<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK6</b> is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open gate with <b>ME-16</b> key	<b>SUCCESSFUL</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK1</b> inside gate-box <b>RF Reset</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK6</b> is	<b>OFF</b>
	<b>CLOSE</b>	<b>TK1</b> gate	
<input type="checkbox"/>	<b>Check for acceptance of Test of TK1 gate</b>		

### 1.8 Test of Tank 9 (TK9) gate

<input type="checkbox"/>	<b>VERIFY</b>	Hardware <input type="checkbox"/> , Electrical <input type="checkbox"/> at <b>TK9</b> gate is	<b>O.K.</b>
	<b>PLACE</b>	Linac in Restricted Access ( <b>RA</b> ) at encl <b>4880</b> with <b>BNL-3</b> key and <b>green</b> P/B	
<input type="checkbox"/>	<b>VERIFY</b>	Linac is in	<b>RA</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open <b>TK9</b> gate with <b>P/B</b>	<b>SUCCESSFUL</b>
	<b>HOLD</b>	<b>Gate</b> MS and Electric Strike ( <b>ES</b> )	<b>CLOSED</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>Gate</b> lamp is	<b>ON</b>
	<b>OPEN</b>	<b>Gate</b> MS	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Gate</b> lamp is	<b>OFF</b>
	<b>CLOSE</b>	<b>Gate</b> MS and <b>hold</b>	<b>CLOSED</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>Gate</b> lamp is	<b>ON</b>
	<b>OPEN</b>	<b>ES</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Gate</b> lamp is	<b>OFF</b>
	<b>CLOSE</b>	<b>TK9</b> gate	
<input type="checkbox"/>	<b>VERIFY</b>	<b>TK9</b> gate is	<b>CLOSED</b>
	<b>PLACE</b>	Linac in Controlled Access ( <b>CA</b> ) at encl <b>4880</b> with <b>BNL-3</b> key and <b>P/B</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Linac is in	<b>CA</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK9</b> inside gate-box <b>Reset for Beam</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK9</b> inside gate-box <b>Reset for RF</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK7</b> <input type="checkbox"/> and <b>IK7</b> <input type="checkbox"/> is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Locked</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to <b>Reset TK9</b> Gate with <b>ME-17</b> key for <b>beam</b> in the inside gate-box	<b>FAIL</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK9</b> inside gate-box <b>Reset for Beam</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK9</b> inside gate-box <b>Reset for RF</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK7</b> <input type="checkbox"/> and <b>IK7</b> <input type="checkbox"/> is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Locked</b> light is	<b>ON</b>
	<b>CLOSE</b>	At encl 4880 relays <b>IK9</b> and <b>IK8</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to <b>Reset TK9</b> Gate with <b>ME-17</b> key for <b>beam</b> in the inside gate-box	<b>SUCCESSFUL</b>
	<b>OPEN</b>	At encl 4880 relays <b>IK9</b> and <b>IK8</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK9</b> inside gate-box <b>Reset for Beam</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK9</b> inside gate-box <b>Reset for RF</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relays <b>DK7</b> <input type="checkbox"/> and <b>IK7</b> <input type="checkbox"/> are	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Locked</b> light is	<b>OFF</b>



<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open gate with <b>ME-17</b> key in the outside gate-box	<b>SUCCESSFUL</b>	
	<b>CLOSE</b>	<b>TK9</b> gate		
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK9</b> inside gate-box <b>Reset for Beam</b> light is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK9</b> outside gate-box <b>Reset for RF</b> light is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK7</b> <input type="checkbox"/> and <b>IK7</b> <input type="checkbox"/> is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Locked</b> light is	<b>ON</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to <b>Reset TK9</b> Gate with <b>ME-17</b> key for <b>beam</b> in the outside gate-box	<b>FAIL</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK9</b> inside gate-box <b>Reset for Beam</b> light is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK9</b> inside gate-box <b>Reset for RF</b> light is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK7</b> <input type="checkbox"/> and <b>IK7</b> <input type="checkbox"/> is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Locked</b> light is	<b>ON</b>	
	<b>CLOSE</b>	At encl 4880 relays <b>IK9</b> and <b>IK8</b>		
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to <b>Reset TK9</b> Gate with <b>ME-17</b> key for <b>beam</b> in the outside gate-box	<b>SUCCESSFUL</b>	
	<b>OPEN</b>	At encl 4880 relays <b>IK9</b> and <b>IK8</b>		
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK9</b> inside gate-box <b>Reset for Beam</b> light is	<b>ON</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK9</b> inside gate-box <b>Reset for RF</b> light is	<b>ON</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relays <b>DK7</b> <input type="checkbox"/> and <b>IK7</b> <input type="checkbox"/> are	<b>ON</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Locked</b> light is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open gate with <b>ME-17</b> key in the outside gate-box	<b>SUCCESSFUL</b>	
	<b>CLOSE</b>	<b>TK9</b> gate		
	<b>PLACE</b>	Linac in Restricted Access ( <b>RA</b> ) at encl <b>4880</b> with <b>BNL-3</b> key and <b>green</b> P/B		
<input type="checkbox"/>	<b>VERIFY</b>	Linac is in	<b>RA</b>	
	<b>CLOSE</b>	<b>Gates TK9</b> and <b>TK1</b>		
	<b>PLACE</b>	Linac in <b>Tank RF Controlled Access</b> at encl <b>4880</b> with <b>ME-16</b> key		
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>IK6</b> is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relays <b>FK3</b> <input type="checkbox"/> and <b>CK2</b> <input type="checkbox"/> are	<b>ON</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to <b>Reset TK9</b> Gate with <b>ME-17</b> key for <b>beam</b> in the inside gate-box	<b>FAIL</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK9</b> inside gate-box <b>Reset for Beam</b> light is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK9</b> inside gate-box <b>Reset for RF</b> light is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>DK7</b> <input type="checkbox"/> and <b>IK7</b> <input type="checkbox"/> is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Locked</b> light is	<b>ON</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to <b>Reset TK9</b> Gate with <b>ME-16</b> key for <b>RF</b> in the inside gate-box	<b>SUCCESSFUL</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK9</b> inside gate-box <b>Reset</b> light is	<b>ON</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>IK3</b> is	<b>ON</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 <b>N/Locked</b> light is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open gate with <b>ME-16</b> key in the outside gate-box	<b>SUCCESSFUL</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At <b>TK9</b> inside gate-box <b>Reset</b> light is	<b>OFF</b>	
<input type="checkbox"/>	<b>VERIFY</b>	At encl 4880 relay <b>IK3</b> is	<b>OFF</b>	

- |                          |   |   |                   |
|--------------------------|---|---|-------------------|
| <input type="checkbox"/> | <b>VERIFY</b>                                   | At encl 4880 <b>N/Locked</b> light is   | <b>ON</b>         |
| <input type="checkbox"/> | <b>VERIFY</b>                                   | Attempt to <b>Reset TK9</b> Gate with <b>ME-16</b> key for <b>RF</b> in the outside gate-box        | <b>SUCCESSFUL</b> |
| <input type="checkbox"/> | <b>VERIFY</b>                                   | At <b>TK9</b> outside gate-box <b>Reset</b> light is  | <b>ON</b>         |
| <input type="checkbox"/> | <b>VERIFY</b>                                   | At encl 4880 relay <b>IK3</b> is  | <b>ON</b>         |
| <input type="checkbox"/> | <b>VERIFY</b>                                   | At encl 4880 <b>N/Locked</b> light is   | <b>OFF</b>        |
| <input type="checkbox"/> | <b>VERIFY</b>                                   | Attempt to open gate with <b>ME-16</b> key in the outside gate-box                                  | <b>SUCCESSFUL</b> |
|                          | <b>HOLD</b>                                     | <b>TK9</b> gate for > then 2 minutes  |                   |
| <input type="checkbox"/> | <b>VERIFY</b>                                   | At encl 4880 relays <b>FK3</b> <input type="checkbox"/> and <b>CK2</b> <input type="checkbox"/> are | <b>OFF</b>        |
|                          | <b>CLOSE</b>                                    | <b>TK9</b> gate   |                   |
| <input type="checkbox"/> | <b>Check for acceptance of Test of TK9 gate</b> |   |                   |

#### 1.9 Test of MCR Simultaneous Release

- |                          |  |   |           |
|--------------------------|--|---|-----------|
|                          | <b>GIVE</b>  | <b>Simultaneous Release</b> from <b>MCR</b> |           |
| <input type="checkbox"/> | <b>VERIFY</b>  | At encl 4880 relay <b>BK8</b> is            | <b>ON</b> |
| <input type="checkbox"/> | <b>Check for acceptance of Test of MCR Simultaneous Release.</b> |   |           |

#### END OF TEST PROCEDURE

**TTL: Sign for completion of initial testing:** \_\_\_\_\_

**Date:** \_\_\_\_/\_\_\_\_/\_\_\_\_

**TTL: Sign for completion of final testing:** \_\_\_\_\_

**Date:** \_\_\_\_/\_\_\_\_/\_\_\_\_